

2570  
1115

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OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/010,476

DATE: 11/22/2002

TIME: 12:30:20

Input Set : N:\Cr3\RULE60\10010476.raw

Output Set: N:\CRF4\11222002\J010476.raw

SEQUENCE LISTING

1 (1) GENERAL INFORMATION:

2 (i) APPLICANT: Reich, Norbert O.

3 Flynn, James

4 (ii) TITLE OF INVENTION: MODULATORS OF DNA CYTOSINE-5

5 METHYLTRANSFERASE AND METHODS FOR USE THEREOF

6 (iii) NUMBER OF SEQUENCES: 110

7 (iv) CORRESPONDENCE ADDRESS:

8 (A) ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt

9 (B) STREET: 11150 Santa Monica Boulevard, Suite 400

10 (C) CITY: Los Angeles

11 (D) STATE: CA

12 (E) COUNTRY: USA

13 (F) ZIP: 90025

14 (v) COMPUTER READABLE FORM:

15 (A) MEDIUM TYPE: Diskette

16 (B) COMPUTER: IBM Compatible

17 (C) OPERATING SYSTEM: DOS

18 (D) SOFTWARE: FastSEQ for Windows Version 2.0

19 (vi) CURRENT APPLICATION DATA:

C--> 20 (A) APPLICATION NUMBER: US/10/010,476

C--> 21 (B) FILING DATE: 07-Dec-2001

22 (C) CLASSIFICATION:

23 (vii) PRIOR APPLICATION DATA:

24 (A) APPLICATION NUMBER: US/09/485,071

25 (B) FILING DATE: 12-Jun-1998

26 (A) APPLICATION NUMBER: 60/057,411

27 (B) FILING DATE: 29-AUG-1997

28 (viii) ATTORNEY/AGENT INFORMATION:

29 (A) NAME: Canady, Karen S

30 (B) REGISTRATION NUMBER: 39,927

31 (C) REFERENCE/DOCKET NUMBER: 30794.30WO01

32 (ix) TELECOMMUNICATION INFORMATION:

33 (A) TELEPHONE: 310 445-1140

34 (B) TELEFAX: 310 445-9031

35 (C) TELEX:

36 (2) INFORMATION FOR SEQ ID NO: 1:

37 (i) SEQUENCE CHARACTERISTICS:

38 (A) LENGTH: 26 base pairs

39 (B) TYPE: nucleic acid

40 (C) STRANDEDNESS: double

41 (D) TOPOLOGY: linear

42 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

ENTERED

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Input Set : N:\Crif3\RULE60\10010476.raw

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```

43      GGGGGGGRRK KGCGKGGK GK KGKKGG                                26
45 (2)  INFORMATION FOR SEQ ID NO: 2:
46      (i) SEQUENCE CHARACTERISTICS:
47          (A) LENGTH: 26 base pairs
48          (B) TYPE: nucleic acid
49          (C) STRANDEDNESS: double
50          (D) TOPOLOGY: linear
51      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
52      KGGRKKRDDD KRCGKRDDKK KKKKKG                                26
54 (2)  INFORMATION FOR SEQ ID NO: 3:
55      (i) SEQUENCE CHARACTERISTICS:
56          (A) LENGTH: 10 base pairs
57          (B) TYPE: nucleic acid
58          (C) STRANDEDNESS: double
59          (D) TOPOLOGY: linear
60      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
61      GGGGCGGGGC                                10
63 (2)  INFORMATION FOR SEQ ID NO: 4:
64      (i) SEQUENCE CHARACTERISTICS:
65          (A) LENGTH: 10 base pairs
66          (B) TYPE: nucleic acid
67          (C) STRANDEDNESS: double
68          (D) TOPOLOGY: linear
69      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
70      CCAACGTTGG                                10
72 (2)  INFORMATION FOR SEQ ID NO: 5:
73      (i) SEQUENCE CHARACTERISTICS:
74          (A) LENGTH: 10 base pairs
75          (B) TYPE: nucleic acid
76          (C) STRANDEDNESS: double
77          (D) TOPOLOGY: linear
78      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
79      CCAAGATTGG                                10
81 (2)  INFORMATION FOR SEQ ID NO: 6:
82      (i) SEQUENCE CHARACTERISTICS:
83          (A) LENGTH: 10 base pairs
84          (B) TYPE: nucleic acid
85          (C) STRANDEDNESS: double
86          (D) TOPOLOGY: linear
87      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
88      CGATCGATCG                                10
90 (2)  INFORMATION FOR SEQ ID NO: 7:
91      (i) SEQUENCE CHARACTERISTICS:
92          (A) LENGTH: 10 base pairs
93          (B) TYPE: nucleic acid
94          (C) STRANDEDNESS: double
95          (D) TOPOLOGY: linear
96      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
97      CCAACGTTGG                                10

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```

99 (2) INFORMATION FOR SEQ ID NO: 8:
100     (i) SEQUENCE CHARACTERISTICS:
101         (A) LENGTH: 12 base pairs
102         (B) TYPE: nucleic acid
103         (C) STRANDEDNESS: double
104         (D) TOPOLOGY: linear
105     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
106     CCGTACGTAC GG                                     12
108 (2) INFORMATION FOR SEQ ID NO: 9:
109     (i) SEQUENCE CHARACTERISTICS:
110         (A) LENGTH: 30 base pairs
111         (B) TYPE: nucleic acid
112         (C) STRANDEDNESS: double
113         (D) TOPOLOGY: linear
114     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
115     GGGAATTCAA GGGGCGGGGC AAGGATCCAG                 30
117 (2) INFORMATION FOR SEQ ID NO: 10:
118     (i) SEQUENCE CHARACTERISTICS:
119         (A) LENGTH: 30 base pairs
120         (B) TYPE: nucleic acid
121         (C) STRANDEDNESS: double
122         (D) TOPOLOGY: linear
123     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
124     CTGGATCCTT GCCCGCCCC TTGAATCCC                   30
126 (2) INFORMATION FOR SEQ ID NO: 11:
127     (i) SEQUENCE CHARACTERISTICS:
128         (A) LENGTH: 30 base pairs
129         (B) TYPE: nucleic acid
130         (C) STRANDEDNESS: double
131         (D) TOPOLOGY: linear
132     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
133     GGGAATTCAA ATGACGTCAA AAGGATCCAG                 30
135 (2) INFORMATION FOR SEQ ID NO: 12:
136     (i) SEQUENCE CHARACTERISTICS:
137         (A) LENGTH: 30 base pairs
138         (B) TYPE: nucleic acid
139         (C) STRANDEDNESS: double
140         (D) TOPOLOGY: linear
141     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
142     CTGGATCCTT TTGACGTCAT TTGAATCCC                   30
144 (2) INFORMATION FOR SEQ ID NO: 13:
145     (i) SEQUENCE CHARACTERISTICS:
146         (A) LENGTH: 50 base pairs
147         (B) TYPE: nucleic acid
148         (C) STRANDEDNESS: double
149         (D) TOPOLOGY: linear
150     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
151     CCTACCCACC CTGGATCCTT GCCCGCCCC TTGAATCCC AACCCCTCCAC 50
153 (2) INFORMATION FOR SEQ ID NO: 14:

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154      (i) SEQUENCE CHARACTERISTICS:
155          (A) LENGTH: 22 base pairs
156          (B) TYPE: nucleic acid
157          (C) STRANDEDNESS: double
158          (D) TOPOLOGY: linear
159      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
160          ATCCTTGCCC CGCCCCTTGA AT
162 (2) INFORMATION FOR SEQ ID NO: 15:
163      (i) SEQUENCE CHARACTERISTICS:
164          (A) LENGTH: 14 base pairs
165          (B) TYPE: nucleic acid
166          (C) STRANDEDNESS: double
167          (D) TOPOLOGY: linear
168      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
169          TTGCCCCGCC CCTT
171 (2) INFORMATION FOR SEQ ID NO: 16:
172      (i) SEQUENCE CHARACTERISTICS:
173          (A) LENGTH: 66 base pairs
174          (B) TYPE: nucleic acid
175          (C) STRANDEDNESS: double
176          (D) TOPOLOGY: linear
177      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
178          GGGAATTCAT GGATCCTAAA NNNNNNNNNN NNCGNNNNNN NNNNNNTTTC AAGCTTGTGA
179          ATTCCC
181 (2) INFORMATION FOR SEQ ID NO: 17:
182      (i) SEQUENCE CHARACTERISTICS:
183          (A) LENGTH: 66 base pairs
184          (B) TYPE: nucleic acid
185          (C) STRANDEDNESS: double
186          (D) TOPOLOGY: linear
187      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
188          CCCTTAAGTA CCTAGGATTT NNNNNNNNNN NNGCNNNNNN NNNNNNAAAG TTCGAACACT
189          TAAGGG
191 (2) INFORMATION FOR SEQ ID NO: 18:
192      (i) SEQUENCE CHARACTERISTICS:
193          (A) LENGTH: 26 base pairs
194          (B) TYPE: nucleic acid
195          (C) STRANDEDNESS: double
196          (D) TOPOLOGY: linear
197      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
198          GTGGGATGGG AACGAGTTGA GGAGGG
200 (2) INFORMATION FOR SEQ ID NO: 19:
201      (i) SEQUENCE CHARACTERISTICS:
202          (A) LENGTH: 26 base pairs
203          (B) TYPE: nucleic acid
204          (C) STRANDEDNESS: double
205          (D) TOPOLOGY: linear
206      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
207          AGTGGTATGT ATCGATTATA GTTGGG

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209 (2) INFORMATION FOR SEQ ID NO: 20:
210     (i) SEQUENCE CHARACTERISTICS:
211         (A) LENGTH: 26 base pairs
212         (B) TYPE: nucleic acid
213         (C) STRANDEDNESS: double
214         (D) TOPOLOGY: linear
215     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
216     GGAGGAAGTT TACGTATGGT ATGGGG                                26
218 (2) INFORMATION FOR SEQ ID NO: 21:
219     (i) SEQUENCE CHARACTERISTICS:
220         (A) LENGTH: 26 base pairs
221         (B) TYPE: nucleic acid
222         (C) STRANDEDNESS: double
223         (D) TOPOLOGY: linear
224     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
225     TGGGAGGGGA TTCGAGGTGA GAGTTG                                26
227 (2) INFORMATION FOR SEQ ID NO: 22:
228     (i) SEQUENCE CHARACTERISTICS:
229         (A) LENGTH: 26 base pairs
230         (B) TYPE: nucleic acid
231         (C) STRANDEDNESS: double
232         (D) TOPOLOGY: linear
233     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
234     ATAAAGTATT AGCGTAAGAG ATGAAG                                26
236 (2) INFORMATION FOR SEQ ID NO: 23:
237     (i) SEQUENCE CHARACTERISTICS:
238         (A) LENGTH: 26 base pairs
239         (B) TYPE: nucleic acid
240         (C) STRANDEDNESS: double
241         (D) TOPOLOGY: linear
242     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:
243     TGGAGGAGTT TACGGTGTA TTTGTTT                                26
245 (2) INFORMATION FOR SEQ ID NO: 24:
246     (i) SEQUENCE CHARACTERISTICS:
247         (A) LENGTH: 26 base pairs
248         (B) TYPE: nucleic acid
249         (C) STRANDEDNESS: double
250         (D) TOPOLOGY: linear
251     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:
252     GGAGTAGGTA GACGTTAAGT ATGATG                                26
254 (2) INFORMATION FOR SEQ ID NO: 25:
255     (i) SEQUENCE CHARACTERISTICS:
256         (A) LENGTH: 26 base pairs
257         (B) TYPE: nucleic acid
258         (C) STRANDEDNESS: double
259         (D) TOPOLOGY: linear
260     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:
261     GTGGGAAGGG GACGAATTTG AAGGTG                                26
263 (2) INFORMATION FOR SEQ ID NO: 26:

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/010,476

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TIME: 12:30:21

Input Set : N:\Crf3\RULE60\10010476.raw

Output Set: N:\CRF4\11222002\J010476.raw

L:20 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:21 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:1027 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:110